

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1.-25. (Cancelled)

26. (Currently Amended) A method of transmitting information by a wireless communication device, the method comprising:

monitoring an energy level of a monitored frequency band of a selected frequency hopping pattern; and

transmitting data on a transmit frequency band of said selected frequency hopping pattern ~~following a predetermined time delay~~ if said energy level indicates a particular condition of said monitored frequency band, wherein a timing of further data transmission according to the selected frequency hopping pattern is determined based on a time at which the particular condition is met.

27. (Previously Presented) The method of Claim 26, wherein said transmit frequency band is the same as said monitored frequency band, and wherein said particular condition comprises a condition that a pre-existing transmission in the monitored frequency band has been completed.

28. (Previously Presented) The method of Claim 26, wherein said transmit frequency band is different from said monitored frequency band, and wherein said particular condition comprises a condition that there is no pre-existing transmission in the monitored frequency band.

29. (Cancelled)

30. (Previously Presented) The method of Claim 26, wherein said data comprises one or more orthogonal frequency-division multiplexing (OFDM) symbols.

31. (Previously Presented) The method of Claim 26, further comprising:
selecting said selected frequency hopping pattern based on a determination of use of one or more frequency hopping patterns within a communication range of the wireless communication device.

32. (Previously Presented) The method of Claim 31, wherein said determination is based on at least one process selected from the group consisting of: detecting one or more frequency hopping patterns; and receiving one or more notifications of frequency hopping patterns being used.

33. (Previously Presented) The method of Claim 31, wherein said selecting said selected frequency hopping pattern comprises selecting a frequency hopping pattern that is being used within the communication range of the wireless communication device.

34. (Currently Amended) A wireless transmitter apparatus comprising:
means for monitoring an energy level of a monitored frequency band of a selected frequency hopping pattern; and
means for transmitting data on a transmit frequency band of said selected frequency hopping pattern following a predetermined time delay if said energy level indicates a particular condition of said monitored frequency band, wherein a timing of further data transmission according to the selected frequency hopping pattern is determined based on a time at which the particular condition is met.

35. (Previously Presented) The apparatus of Claim 34, wherein said transmit frequency band is the same as said monitored frequency band, and wherein said particular condition comprises a condition that a pre-existing transmission in the monitored frequency band has been completed.

36. (Previously Presented) The apparatus of Claim 34, wherein said transmit frequency band is different from said monitored frequency band, and wherein said particular condition comprises a condition that there is no pre-existing transmission in the monitored frequency band.

37. (Cancelled)

38. (Previously Presented) The apparatus of Claim 34, wherein said data comprises one or more orthogonal frequency-division multiplexing (OFDM) symbols.

39. (Previously Presented) The apparatus of Claim 34, further comprising:
means for selecting said selected frequency hopping pattern based on a determination of use of one or more frequency hopping patterns within a communication range of the wireless transmitter apparatus.

40. (Previously Presented) The apparatus of Claim 39, wherein the means for selecting comprises:

means for determining use of one or more frequency hopping patterns within the communication range of the wireless transmitter apparatus, wherein said means for determining includes at least one means selected from the group consisting of: means for detecting one or more frequency hopping patterns; and means for receiving one or more notifications of frequency hopping patterns being used.

41. (Previously Presented) The apparatus of Claim 39, wherein said means for selecting said selected frequency hopping pattern is to select a frequency hopping pattern that is being used within the communication range of the wireless communication device.

42. (Currently Amended) A wireless communication device comprising:
a sensing module to monitor an energy level of a monitored frequency band of a selected frequency hopping pattern;

a timing controller coupled to the sensing module to provide an indication of said monitored frequency band to said sensing module, to receive one or more detection signals from said sensing module, and to determine if the one or more detection signals indicate that a particular condition has been satisfied by the monitored frequency band; and

a transmit module coupled to the timing controller to receive an indication to transmit data in a transmit frequency band of the selected frequency hopping pattern, wherein said indication is to be generated by the timing controller subsequent to the timing controller determining the particular condition has been satisfied by the monitored frequency band, and

wherein a timing of further data transmission according to the selected frequency hopping pattern is determined based on a time at which the particular condition is satisfied.

43. (Previously Presented) The device of Claim 42, wherein said transmit frequency band is the same as said monitored frequency band, and wherein said particular condition comprises a condition that a pre-existing transmission in the monitored frequency band has been completed.

44. (Previously Presented) The device of Claim 42, wherein said transmit frequency band is different from said monitored frequency band, and wherein said particular condition comprises a condition that there is no pre-existing transmission in the monitored frequency band.

45. (Currently Amended) The device of Claim 42, wherein said transmit module is further to continue to transmit further data according to said selected frequency hopping pattern according to said timing.

46. (Previously Presented) The device of Claim 42, wherein said data comprises one or more orthogonal frequency-division multiplexing (OFDM) symbols.

47. (Previously Presented) The device of Claim 42, wherein said transmit module comprises: a transmit buffer coupled to receive said indication from the timing controller; and a transform device coupled to an output of said transmit buffer to process data from the output of the transmit buffer to provide an output signal.

48. (Previously Presented) The device of Claim 47, wherein said transform device comprises an inverse fast Fourier transform (IFFT) device.

49. (Previously Presented) The device of Claim 42, wherein said one or more detection signals comprise one or more signals indicating one or more transitions in an energy level of the monitored frequency band.

50. (Previously Presented) The device of Claim 42, wherein said sensing module is further to sense the use of one or more frequency hopping patterns within a communication range of the device, and wherein the timing controller is to select said selected frequency hopping pattern based at least in part on one or more results obtained by the sensing module.

51. (Previously Presented) The device of Claim 42, wherein said device further comprises: a receive module to receive one or more notifications about use of one or more frequency hopping patterns within a communication range of said device; wherein the timing controller is to select said selected frequency hopping pattern based at least in part on said one or more notifications.

52. (Previously Presented) The device of Claim 42, wherein said selected frequency hopping pattern corresponds to a frequency hopping pattern in use within a communication range of said device.

53. (New) The method of Claim 27, wherein transmitting data in the transmit frequency band is to commence following a predetermined time delay following completion of said pre-existing transmission.

54. (New) The apparatus of Claim 35, wherein transmitting data in the transmit frequency band is to commence following a predetermined time delay following completion of said pre-existing transmission.

55. (New) The device of Claim 43, wherein transmitting data in the transmit frequency band is to commence following a predetermined time delay following completion of said pre-existing transmission.